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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/186,247	11/04/1998	MARTIN JAMES BRIGHT	YO998-331	1563

7590 11/23/2001

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EXAMINER

WU, JINGGE

ART UNIT	PAPER NUMBER
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2623

DATE MAILED: 11/23/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/186,247

Applicant(s)
Bright et al.

Examiner
Jingge Wu

Art Unit
2623



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE THREE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Sep 5, 2001.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-84 is/are pending in the application.
- 4a) Of the above, claim(s) 12-14, 25-45, 48-54, 58, 62-64, and 67-83 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11, 15-24, 46, 47, 55-57, 59-61, 65, 66, and 84 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 20) ☐ Other: _____

Art Unit: 2623

Response to Amendment

1. Applicant's election without traverse of Group I (claims 1-11, 15-24, 46-47, 59-61, 55-57, 65-66, and 84 in Paper No. 8 is acknowledged. Claims 12-14, 25-45, 48-54, 58, 62-64, and 67-83 are withdrawn from consideration. Applicant is reminded that upon the cancellation of claims to a non-elected invention.
2. Applicants' response to the last Office Action, filed September 5, 2001 has been entered and made of record.
3. Applicants' amendment has required new grounds of rejection. New grounds rejection are therefore presented in the Office Action.
4. Applicant's arguments with respect to claims 1-11, 15-24, 46-47, 59-61, 55-57, 65-66, and 84 have been fully considered but are moot in view of the new ground(s) of rejection.

Claim Objections

5. Claims 65-66 are objected to because of the following informalities: in claim 65 lines 8, from "59" to line 16 "and", that paragraph appears to be typos (repeating claim 59). Claim 66 depend from claim 65 is therefore objected. Appropriate correction is required.

Claim Rejections - 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

Art Unit: 2623

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claims 1, 3, 9, 15, 18-19, 21-22, 46-49, 59-61 and 65-66 are rejected under 35

U.S.C. 102(e) as being anticipated by US 6256349 to Suzuki et al. ("Suzuki").

As to claim 1, Suzuki discloses a method for digitally processing transform data representing a phenomenon, the method comprising:

performing an inverse transform of said transform data to the real domain forming high-precision numbers (Fig. 2 element 84, col. 3 line 1-col. 4 line 14 and col. 12 lines 36-61); and

directly manipulating said high-precision numbers to produce an effect (Fig. 2, col. 12, lines 33-col. 13, line 64, note that the effect can be prediction image etc.).

As to claim 3, Suzuki further discloses the phenomenon is an image (Fig. 2).

As to claims 9 and 22, Suzuki further discloses IDCT(col. 12, lines 55-62).

As to claim 15, Suzuki further discloses inverse quantization (Fig. 2 element 83).

As to claims 18-19, Suzuki further discloses the coded data are image and video data (abstract).

As to claim 21, Suzuki further discloses MPEG (col. 1, line 48-50).

As to claims 46-49, 59-61, 65-66 the claims 46-47, 59-61 and 65-66 are the corresponding system, article of manufacture, and program storage device claims to claims 1, 3, and 15. The discussion are addressed with regard to claims 1, 3, and 15.

Art Unit: 2623

Claim Rejections - 35 U.S.C. § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 2, 4-8, 10-11, 16-17, 20, 23-24, 55-57 and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki in view of US 6178205 to Cheung et al. ("Cheung" a reference of record).

As to claims 2 and 16, Suzuki does not explicitly mention clipping the integers to an allowed range forming converted image.

Cheung, in an analogous environment, discloses converting said high-precision numbers to integers and clipping the integers to an allowed range forming converted image (col. 10, lines 30-46).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include the scheme of Cheung in the method of Suzuki in order to improve the output quality of the images (Cheung, col. 1, line 50-col.2, line 21). Doing so would remove the blocking effect and errors in the output image so that the quality of the method is improved.

Art Unit: 2623

As to claim 8, Cheung further discloses fraction parts (col. 7, table 2).

As to claims 4-7, 10-11, 17, 20, 23-24, 55-57, Cheung does not explicitly mention the features of chroma-key merging, color correction, image rotation (90 degree), floating number, IDWT, IDFT, entropy decoding, JPEG, raster display monitor, spectral analysis and audio signal.

However, the examiner takes Official Notice that these features are notoriously well known in the art.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include these features in the method of Cheung in order to improve the quality of the images.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Art Unit: 2623

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information


10. Any inquiry concerning this communication or earlier communications should be directed to Jingge Wu whose telephone number is (703) 308-9588. He can normally be reached Monday through Thursday from 8:00 am to 5:30 pm. The examiner can be also reached on second alternate Fridays.

Any inquiry of a general nature or relating to the status of this application should be directed to TC customer service whose telephone number is (703) 306-0377.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Amelia Au, can be reached at (703) 308-6604.

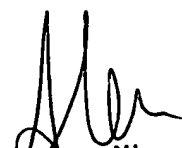
The Working Group Fax number is (703) 872-9314.

Jingge Wu


Patent Examiner

Art Unit 2623

November 14, 2001


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